Notebook, N-03-12-29

This notebook covers the periods December 1903 and May 1905. All entries are by Edison. The entries from 1903 relate to x-ray experiments. The enumerated experiments, slides 1-253 and 381-388, are a continuation of those found in N-03-12-12.2. Several entries contain references to a "big book" into which some of the notes were copied. The notes and drawings from 1905 pertain to storage batteries. Included are calculations regarding the performance of a Lansden "Tonneau" automobile. There are also a few scattered phonograph drawings. The front cover is labeled "x ray." The pages are unnumbered. Approximately 170 pages have been used.

Pages containing only slide numbers, with no data recorded, have not been selected.

Dec 29 1903—
Experiments with 45 hole slides by photographing self radiations through black paper.

No O
Spot 4281 – Cyanide Plat + Cy Uranium
4803 " Thoria + "
4834 " Yttrium + "
4863 not in little book
4882 Cyanide Glucina + Cyanide Didymium

Slide No One

Slide No 2 1st
All rings most dark centers,

Slide 3

Slide 4 – 1st
6389 Amrlin Sulfate + Uranic Sulphate,
very black ring on outside row.

Slide 5 1st

6439 weak Uranic Sulphate + Tin Sulphate
6440 Strong " " Zinc "
6425 fairly strong " " Calcium "
6423 Stronger " " Ammonia "
6433 Pretty Strong " " Lead "
6522 Bleached Quinine Sulp + Na_2SO_4
6445 " Uran Chloride + $BaCl_2$

Slide 6

Slide 7 1st
Strong rings

Slide 8 1st
Off rings

Slide 9 '

Slide 10 1st
Rings, too dark, badly developed.

Slide 11 1st Bad rings
Second Taking —
6 on 6th row strong — Boric Ac + Carbs Uran + Ba

Slide 12 1st
Rings —

Slide 13.
Too dark to see.
2nd Baking 96 Hours
3 on 1st row String 4286 Urea
1 on 5 " " 4329 "
3 on 6 " weak 4266 "

Slide 14 – 1st
3 on 2nd row } Doubtful
6 on 4th row }
3 on 4 row 4374 – $SrNO_3$ $BiNO_3$
4373 $CaNO_3$ $AgNO_3$

Slide 15 1st

All rings — Phenom. where gelatin torn off spot or rather ring to on glass just as strong & dont scratch off — investigate, ?

Slide 16 1st

Rings

Slide 17 1st
Nothing on plate,

Plate 18 1st
3 on 2nd row on both Top + bottom plates
shews edge of brass ring full size and
intensely black, on both
7075 Borofluoric Acid, + $(NH_4)_2 CO_3$ + PbO.
Slide 18 2nd Nothing —

Slide 19 1st.
Mostly rings seems to be one or two spots.
2nd plate 96 hours.
5 on 1st row strong

9th reading forgot it

Slide 20 1st
Nothing -

Slide 21 1st

Strong rings

No 1 on 4th row may be spot.

3 on 3rd " "

4 on 3rd " "

2 on 5th " "

5510 Borolungstate Ba + Carbs K + Ba

5463 Phos A Hg O + Carb Tin

5461 " " + Cd CO_3

5508 Borolungstic A + Carbs K + NHy

5501 " + " Bismuth.

All doubtful

2nd Taking 96 hours

5 on 5th Row | 5498 Borolungstic A + Uran CO_3

1 on 3rd Row Phos Acid Pb O + Nickel CO_3 ?

Slide 22 1st
Rings- can't tell—

Slide 23 1st
Think there are spots- rs lake,
Slide 23 2nd nothing

Slide 24 1st
6 on 6th row-black strong -
5203 - Phos acid + Carb Uranium

Slide 25 1st
8 on 3rd 4th 5th + 6th rows bleachers
4th on 3rd row may be a spot
A large black area, double size of a spot
Plate too dark to tell much
2nd taking 96 hours
1 on 4th row weak 5309
Phos acid + Carb of Barium + Cobalt.
2 on 4th row very strong 5248
Phos a + Carb K + Uran
5309 adjoin + may be dirt from 5248

Slide 26 1st
Lots of Bleachers 1 2 3 4 5 on 6th row
ditto 1 4 2 on 2nd row.
May 62 one spot—

Slide 27 1st
All rimless

Slide 28 1st
Runs + spots
Slide 28 2nd Taking
7505 Sulphovinic Ac + Uranate Nitty
7605 Sulphopseudocumol + "

Slide 29 1st
7 on 3rd row
7530 - Methylsulphonic Ac + Uranate Na —

?

Slide 30 1st

7 on 4th row 4123 = Permalydic NO_3 + Uran NO_3

2 on 5th " 4336 $NaNO_3$ Uran NO_3 = ; ;

6 on 5th " 4301 $NaNO_3$ $SrNO_3$; ;

Slide 31

Slide 32 1st
Rings

Slide 33 1st 6 on 6th row—
7702 Monochloroacetic a + Na_2CO_3 + Ur Na

S

Slide 34 1st

Develpg note – one black spot 4th or 3rd row next to end one, sure. not strong

Slide 35 1st

Slide 37 96 Hours 2nd Taken
4 cm 4th row CyK+ LiCl— Think I read
spots wrong see plate 4 cm 3rd to Urau
book it up = later its right on plate
big book—

Slide 40

Slide 41
3 on 1st row starting 3773 Unrecorded
2 on 3rd " " 3842 "

Slide 42

Slide 43 2nd Taking 96 hours
1 on 6 Row strong 7771 Uranic salt

Slide 44 96 Hours
5 on 5th row strong 8221 Uran
4 on 4 " weak 8090 "
5 on 2nd " 8244 "
6 on 2nd very very weak 8243 "
O-Toluidin SO4 Na_2Cl_3 & Zr (OH)

Slide 45

Slide 54

Slide 55 - taken with piece of salicylate
strontium gives a white spot which is
Sulphate Urine + Barium - spot perfect + white →

Slide 56 2nd Taking 96 hours

8 on 2nd row Uran fair

8 on 6 " para Tolu dm Nitrate & Hg O weak Nitrate S.

2 on 4 " Uran strong

4 on 6 " Uran faint shiny

7 on 6 Para Tolu dm Nitrate & Sb Nit in by book but Pb Nitrate in little book

3 on 1st row may be spot

O-Tolu dm SO4 & Sb SO4 -

Slide 57

63 2nd Taking 96 hour

~~1 on 5th rain strong 5436 Phos Ac + Mn + Hg Carbonate~~
~~5 on 5 " " 7024 Borax + Hydrofluoric Ac + K + Sr "~~
~~3 on 6 " weather 7037 " + K_2CO_3 + HgO~~
~~5 on 6 " fairly strong 7060 " + NH4 + Ba Carbonate~~
~~7 on 6 " Very Strong 7070 " + NH4 + Fe Carbonate~~
~~2 on 1st strong 5576 Phos Ac + Al + Zn "~~

OK for big books

1 on 5 rain strong 2969 Oxalic Ac + UO_3 K_2CO_3 + AlF_2Cl_6
5 on 5 " " 2994 " + $ZnCO_3$ + UO_3
3 on 6 weather 2956 " + UO_3 + K_2CO_3 + $MgCl_2$
5 on 6 fair strong 826 Uran
7 on 6 very strong 990 Oxalic Ac + Uran
2 on 1 strong 2922 " Acid + UO_3 + K_2CO_3 + $CaCl$

Read strong slide

S. S. S. S.

Correct reading

okm by book §

74 2nd Taking 96 hours
1 on 5th row string 1461 Uran
3 on 5th " weak 1464 Iodide K + Nal 4 Iodide §
3 on 6th " " 4260 Uran

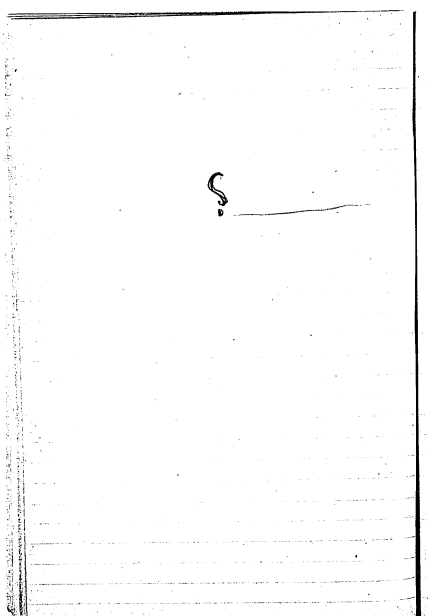
75

78 2nd taking 96 hours
4 on 6 thorow. very weak KCy + UCl - 1696

79

94 2nd Taking 96 hours
4 on 2nd row weighing 8963 Xylidine Urea Oxalate

95



104 2nd Taking 96 hours
6 on 1st row 30489 Urea 2 gr
7 on 2nd 30472 " "
8 on 3rd 30460 " "
3 on 3rd week 30499 " 50 mlq
6 on 6th ring week 30499 " 25 mlq
7 on 1st ring week may be a ring
30592 2 gr CdCl + 1 Mlq Sulphur

105

124 - 2nd taking 96 hours
Nothing

125

126

127 - 2nd 96 hours — Retake 144 hours

130 2nd Taking 96 hours
4 on 5th row very very weak
25 mlq Uran SO4

131

132 2nd taking 96 hours
1 on 4th row weak 31976 50 mily Urea SOf
3 on 4th very strong 31977 2 gr "

133 2nd taking 96 hours
2 on 5th row very very weak
32059 25 mily Urea

134

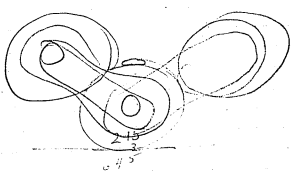
135 2nd Taking 96 hours
1 on 4th row very thin 32229 2 qr Hours
2 on 4 " " 32289 "
3 on 4 " " 32313 "
8 on 3rd " " 32265 "

140 2nd taking 96 hours
Nothing

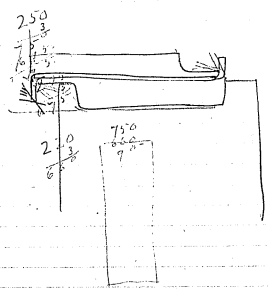
141

154 2nd 96 hours
Nothing

155



105.



162

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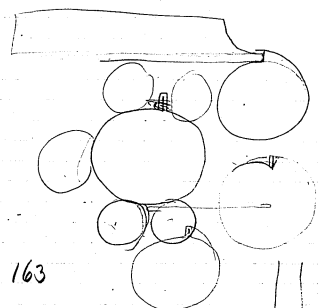

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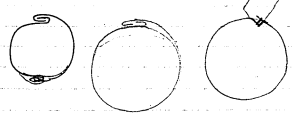
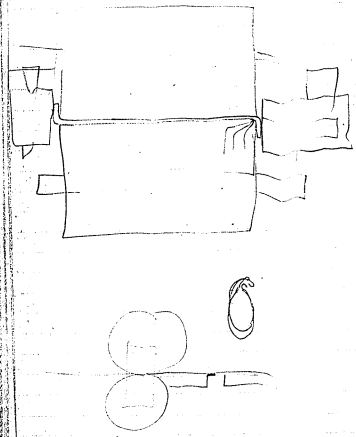


May 7. 1905 SB



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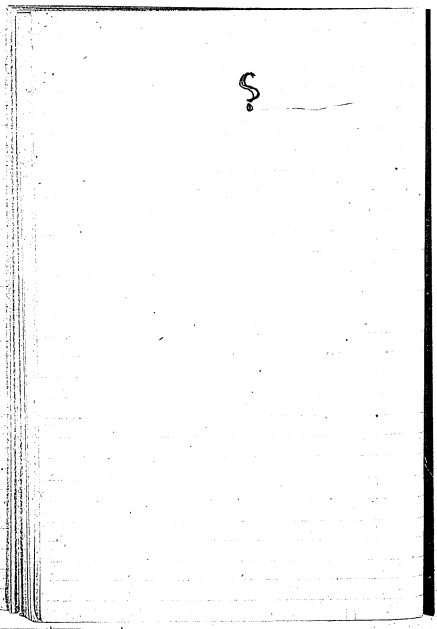
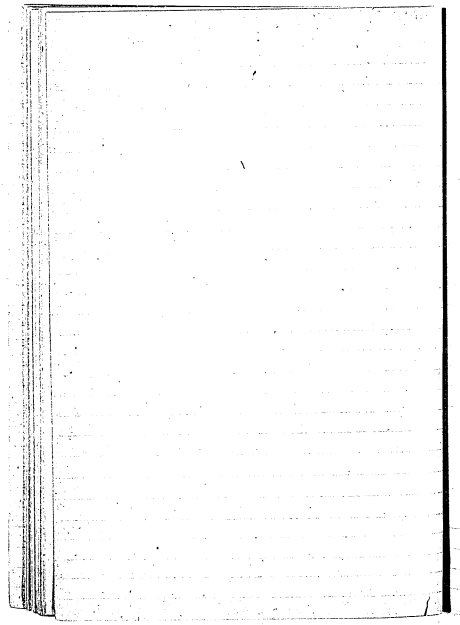
165



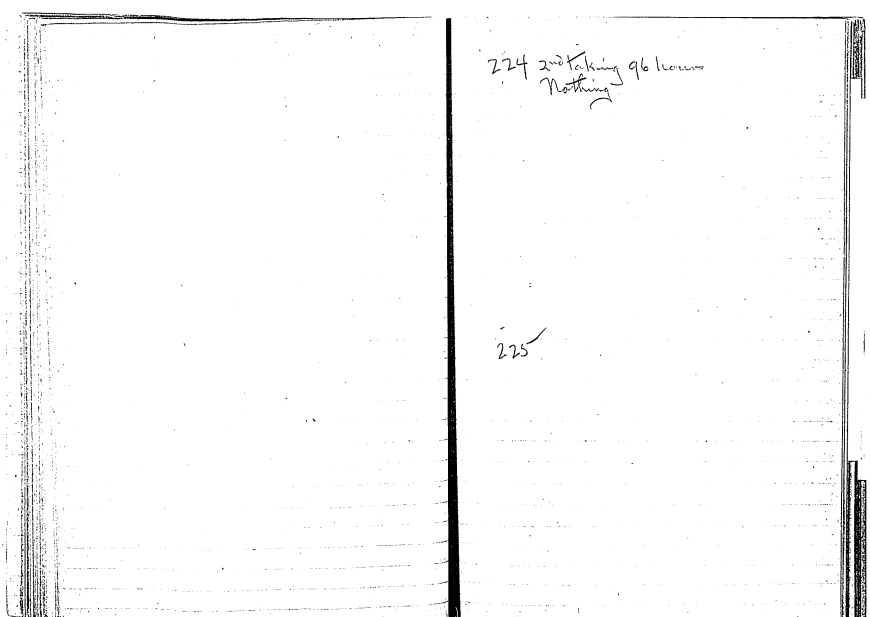
180 2nd taking 96 hours
2 on 6th row employing work 34681
K Arsenate + 25 mlq Ca Borate ok by bowls

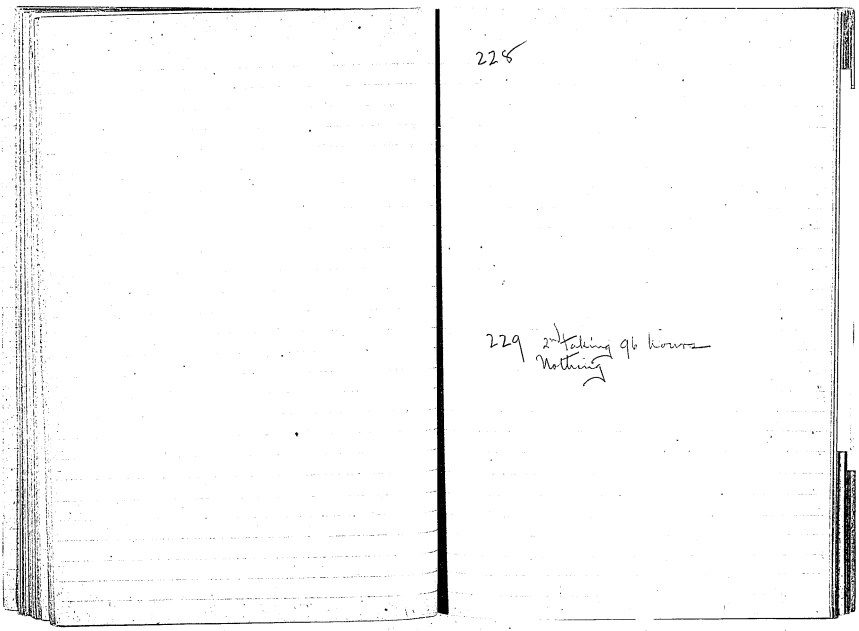
181



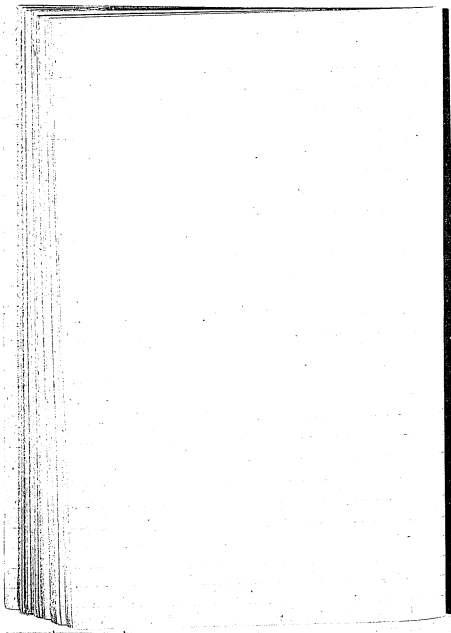
210 2nd baking @ 6 Hours
5 on 2nd row very very weak 36425
2 grms Cu Arsenate + 25 Mls Uran Sulfate

211


224 2nd Talking 96 Hours
Nothing
225

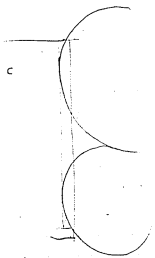

228

229 2nd Sitting 9th Nov
Nothing



244

245 2nd taking 96 hours
Nothing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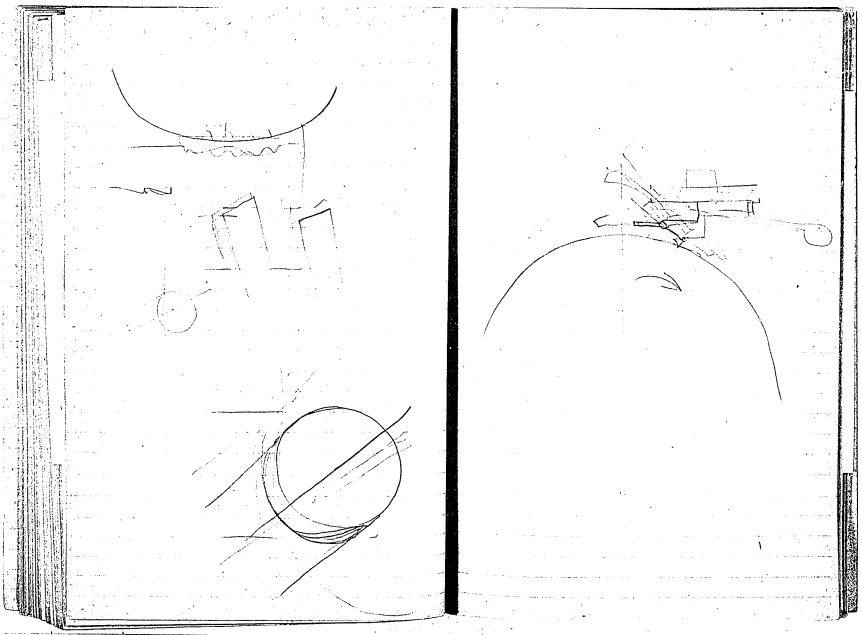


26 miles hour

154
54
616

770
831 6 watts. wt 4760 – lb

2000 | 4760 (2.38
4000
760
600

238 | 831600 (3494
714
1176
952
2240
2142
980

238
26
1428
476
6188 ton miles –

6188 | 831600 (134
61880
215284
185640
27960

134 Watt per ton mile –

221
536
268
321
26
1926
1926
834

21 miles – 121 Watts per ton mile

1115
48
8920
4460
5350 watts. 2.1 tons.
21 miles
21
42
441

2000 | 42000 (21
40000
2000

441 | 53520 (121
441
942
882
60

135 Watts per ton mile 25 miles per hour is pretty near a can Gz Gallon -

Weight of Tonneau 3200 lbs
with 60 & 27 - + 4 persons 4000 lbs

Assuming E. 27 new to give 300 amps
120 V.

300
120
600
3600 watt hours

360
60
2160 watts

of assuming wt to Gz 2 tons -

3200
700
3900 -

+ 25 miles hour would Gz 50 ton miles - per hour -

135
58 - watts to go 25 miles

67.50 | 3600 | 53.37
3375
2250
2025
225

533
25
2665
1665
133.25

65

270 | 36000 | 133.3
270
900
810
90

This would take the tonneau tonneau
~~125~~ miles at 25 miles per hour
with 4 people on it

3. 360
60
67.52 | 21600 | 3.2 - hours
20250
13500
13500

3,2
25
160
64
80.

80/10.

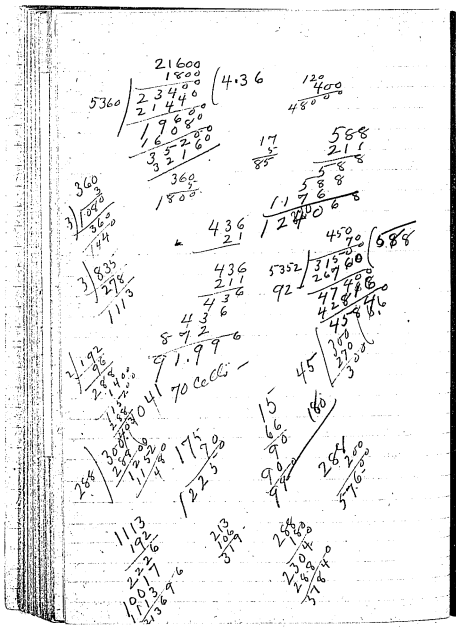
This will drive the tonneau tonneau
80 miles — at 25 mile rate 4 persons

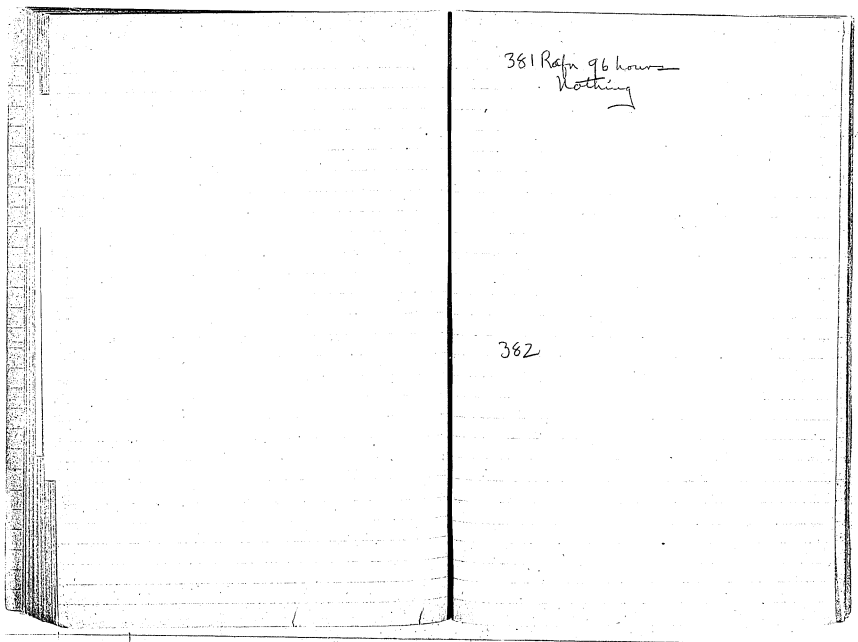
1115 -
48
5920
4760
5352 - watts

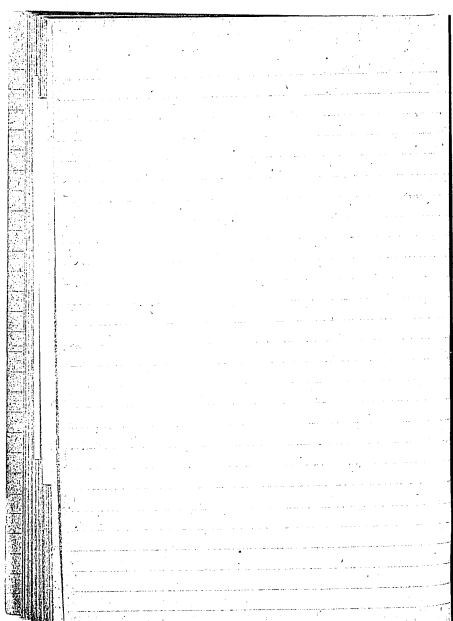
5352 | 21600 | 4.03
21408
192 20

21
84 -

84 miles at 21 miles Rate

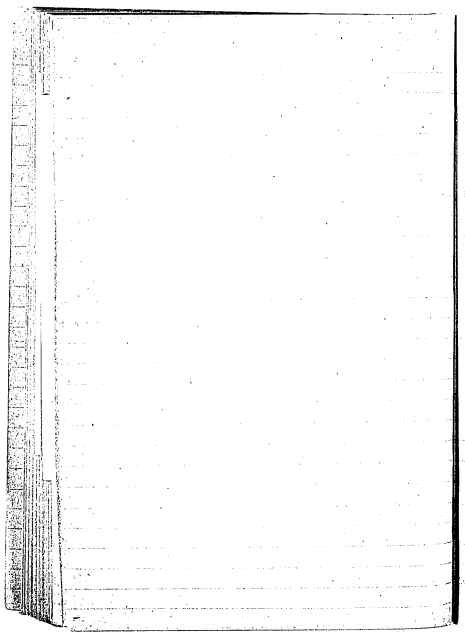



381 Rafn 96 hours
Nothing
382



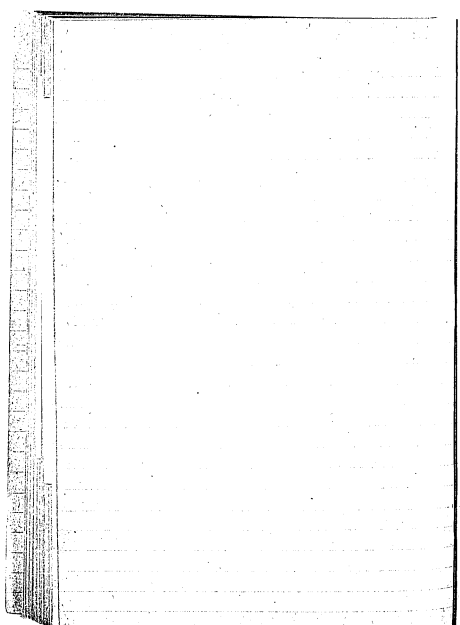
383 Rufn 96 hours
8 on 6th row fairly block 145 Pyrochlore ?
6 on 6 " Block 147 Uran. Carnotite
2 on 3 " Very block 175 Samarskite
1 on 6 " Very weak 152 Monazite sand
8 on 2 " 177 Columbite
3 on 1st = weaker yet 190 Tin Chloride A
4 on 1st still weaker 189 Tin Chloride B

384 96 hours -
Nothing



385 Rafn 96 hours
Nothing

386 Rafn 96 hours
Nothing



387 Rafw 96 hours
3 on 5th row doubtful —
Number ~~balled up~~
gravel — Vermillion,

388 96 hours
Nothing.

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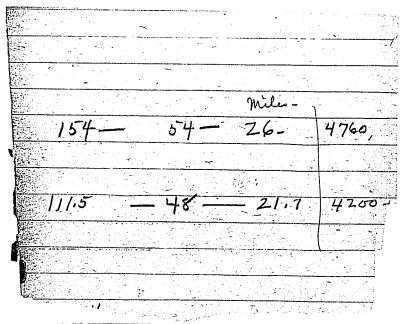

		Miles	
154 —	54 —	26 -	4760,
111.5 —	48 —	21.7	4200 -

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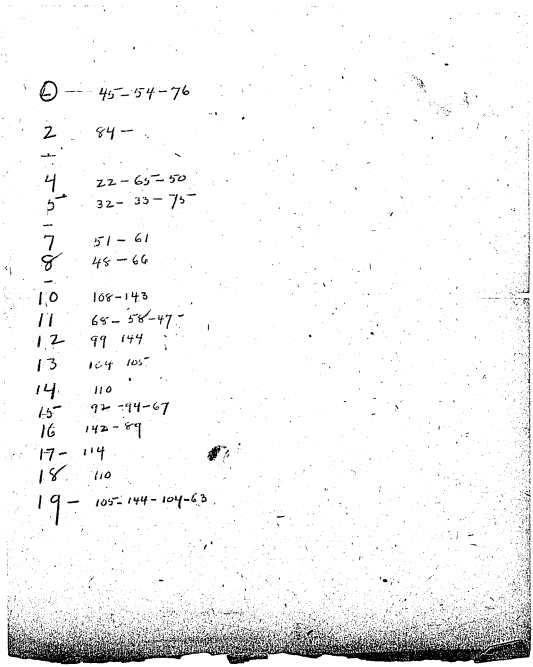

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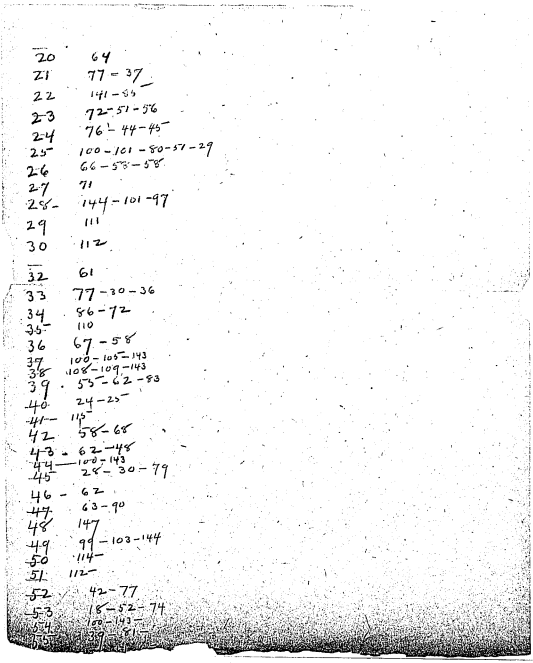

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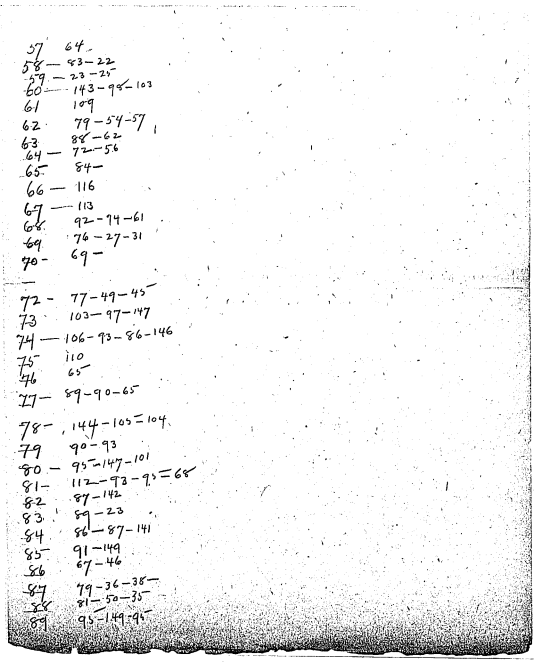

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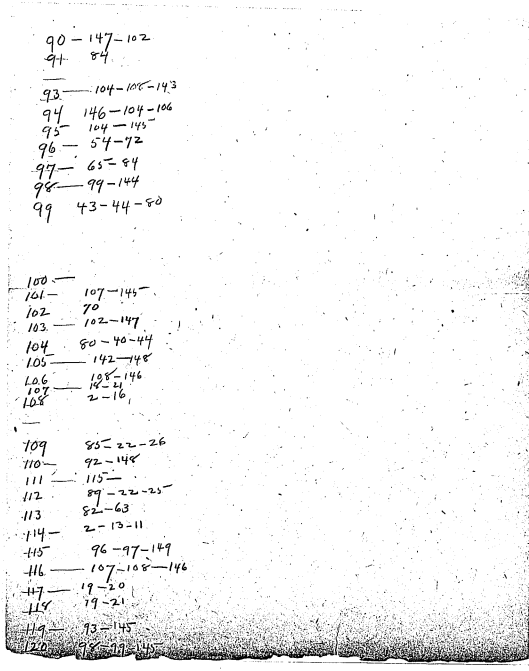

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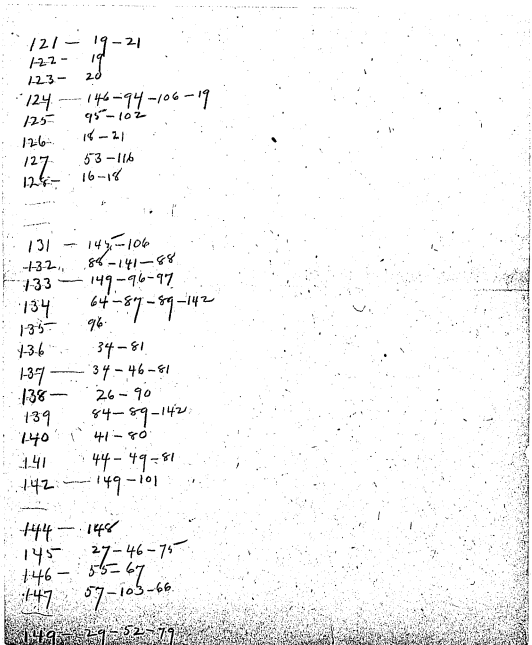

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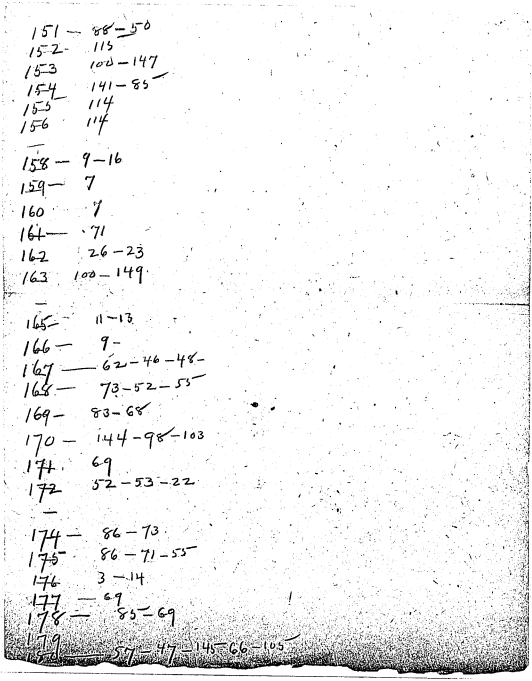

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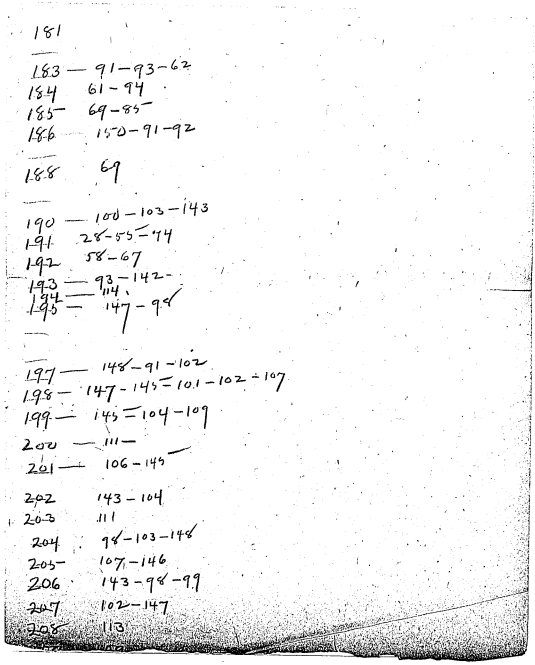

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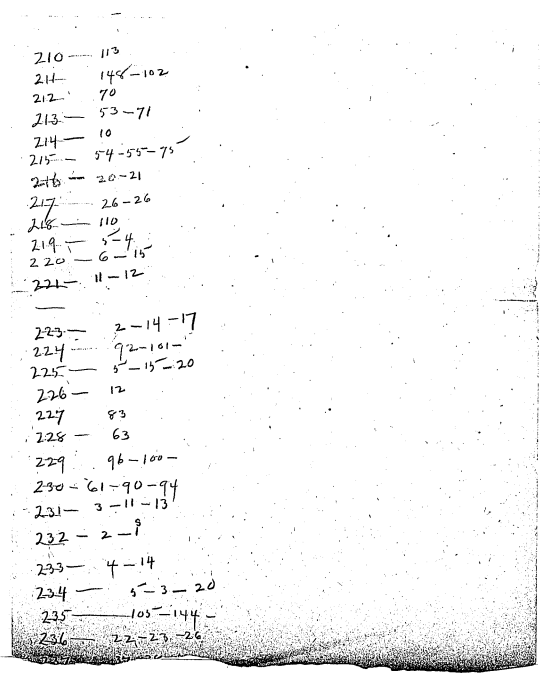

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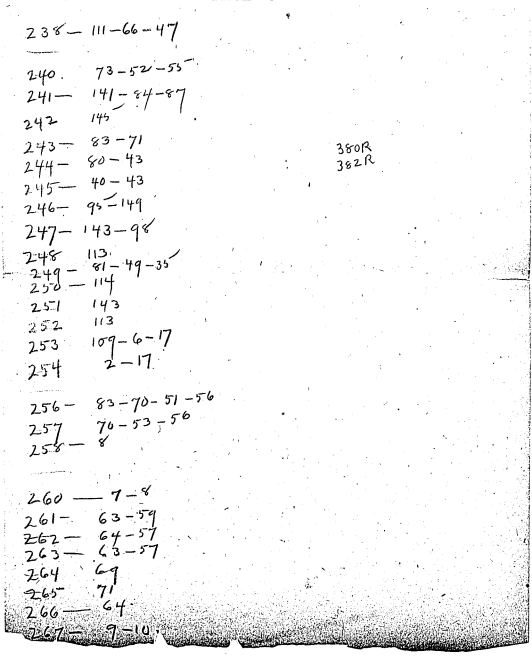

238 — 111 – 66 – 47

240. 73 – 52 – 55
241 — 141 – 54 – 87
242 145
243 — 83 – 71
244 — 80 – 43
245 — 40 – 43
246 — 95 – 149
247 — 143 – 98
248 113
249 — 81 – 49 – 35
250 — 114
251 143
252 113
253 109 – 6 – 17
254 2 – 17

256 — 83 – 70 – 51 – 56
257 70 – 53 – 56
258 — 8

260 — 7 – 8
261 — 63 – 59
262 — 64 – 57
263 — 63 – 57
264 69
265 71
266 — 64
267 — 9 – 10

380R
382R

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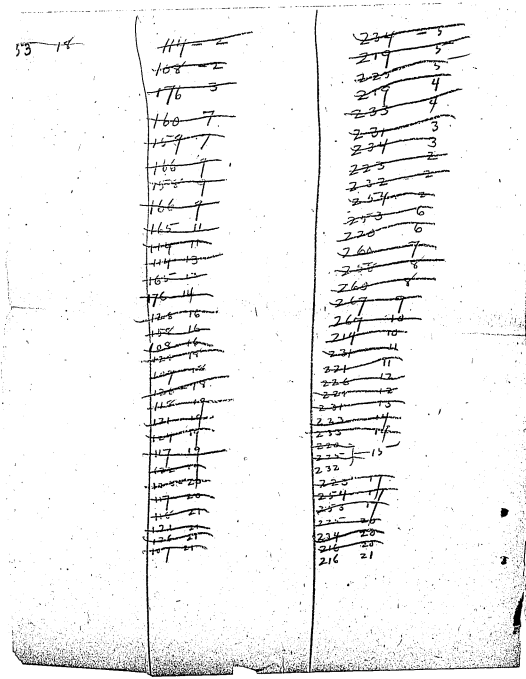

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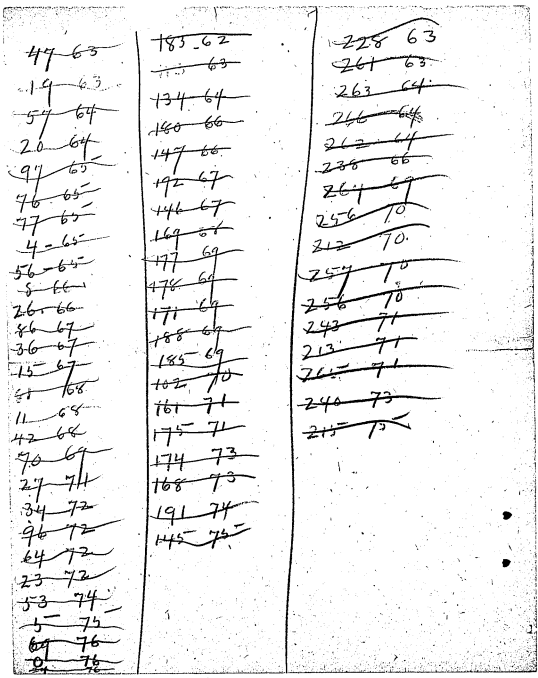

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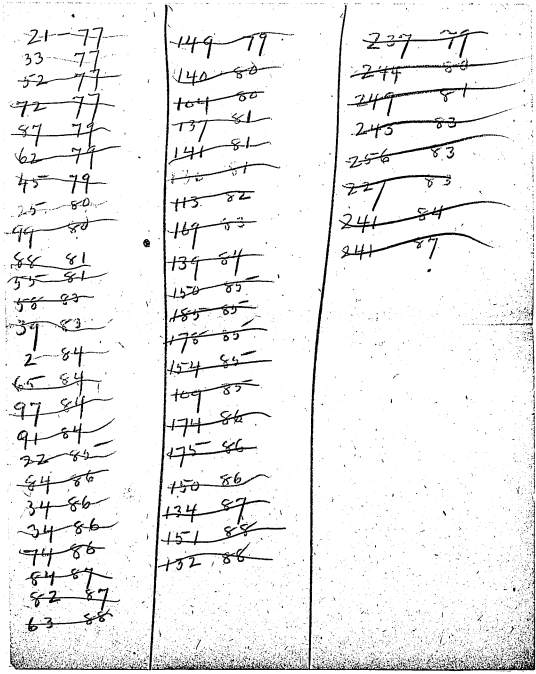

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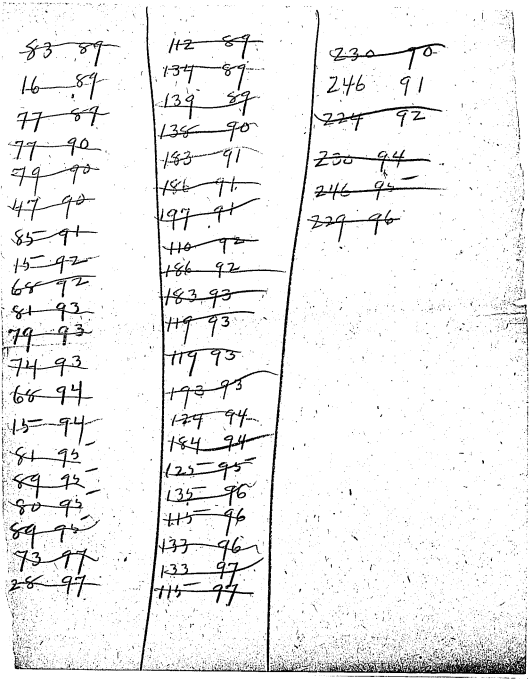

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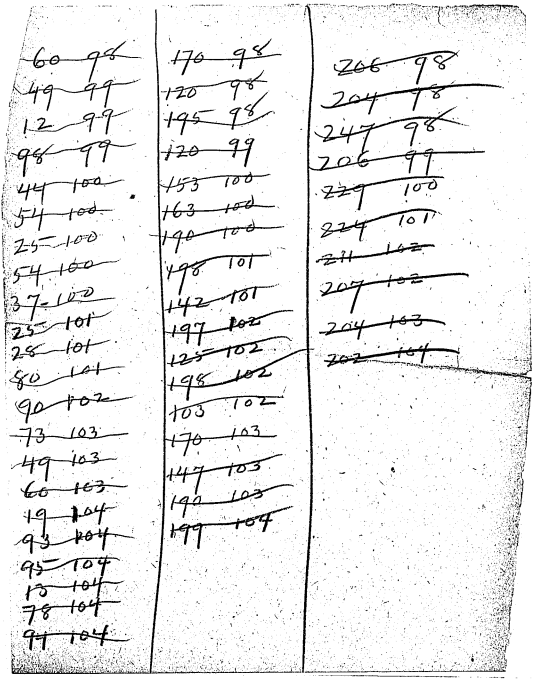

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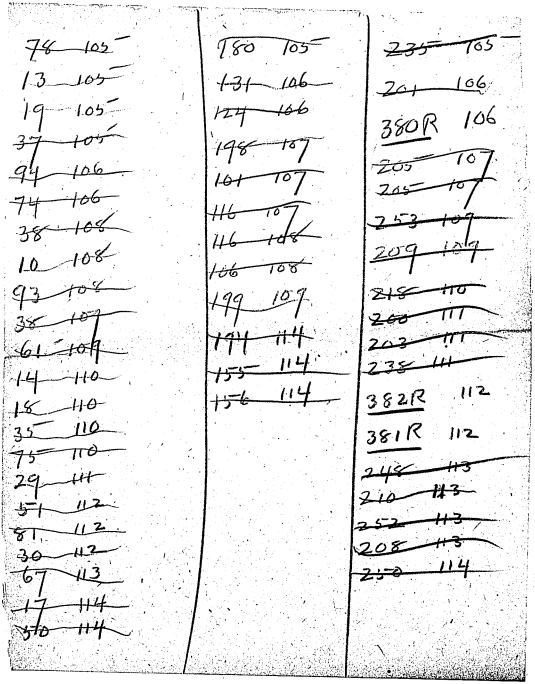

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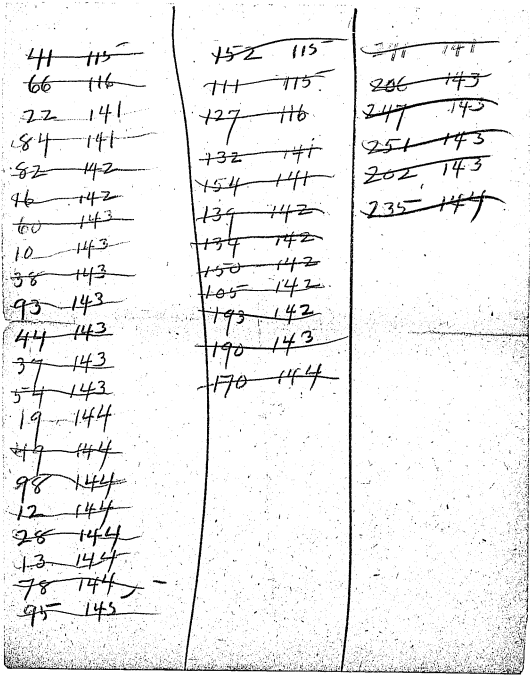

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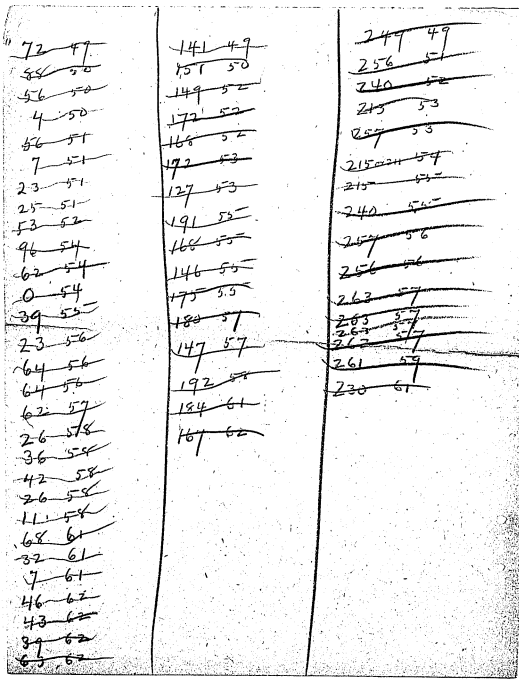

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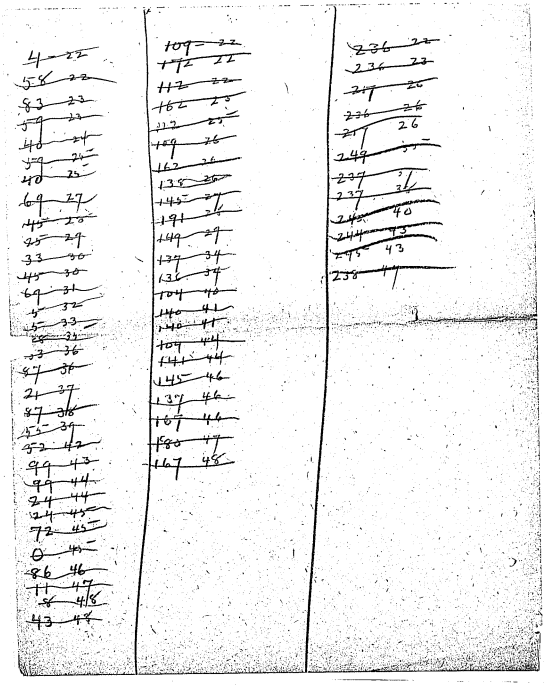

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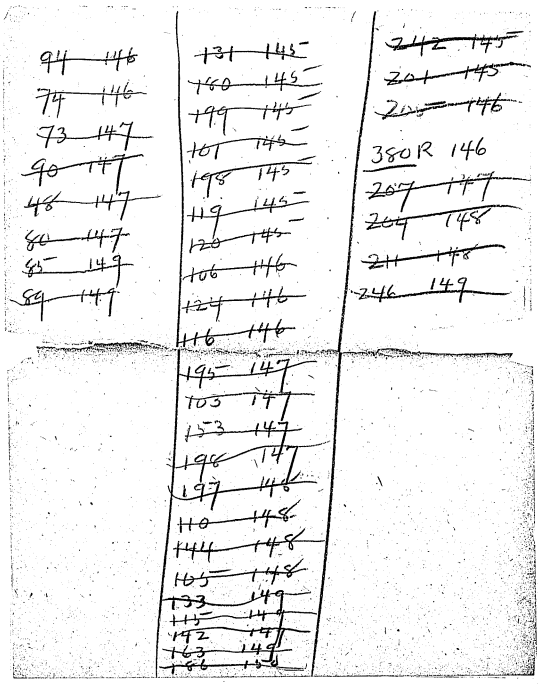

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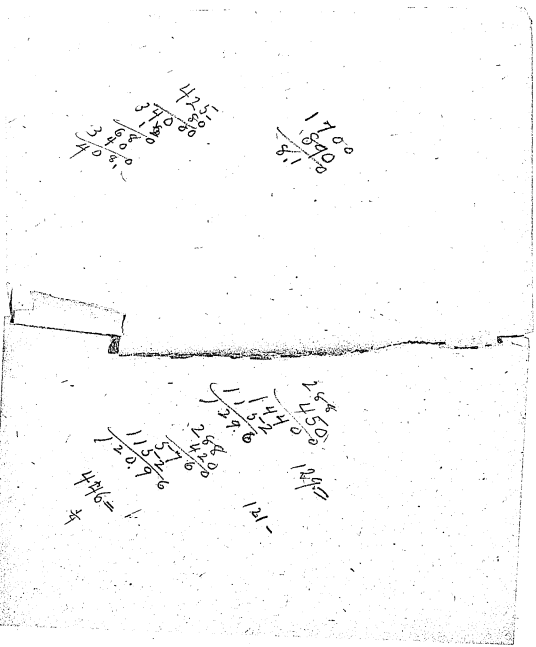
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